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May 24, 2002

M. Uhu

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WRITER'S DIRECT NUMBER: (202) 218-7817 **INTERNET ADDRESS:** MAMCALL@SKGF.COM

Art Unit 2661

Commissioner for Patents Washington, D.C. 20231

> Re: U.S. Utility Patent Application

> > Appl. No. 10/046,725; Filed: January 17, 2002

System and Method for a Guaranteed Delay Jitter Bound when

Scheduling Bandwidth Grants for Voice Calls via a Cable Network

Gummalla et al. Inventors: 1875.0690001 Our Ref:

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Power of Attorney from Assignee;

Certificate Under 37 C.F.R. §3.73(b) with a copy of the Assignment attached; and 2.

3. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted.

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Molly B. McCall

Attorney for Applicants Registration No. 46,126

RES/MAM:kim

Enclosures SKGF DC1:17020.1

Sterne, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com



POWER OF ATTORNEY FROM ASSIGNEE

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Broadcom Corporation, a corporation of <u>California</u>, having a principal place of business at <u>16215 Alton Parkway</u>, <u>Irving, California 92618-3616</u>, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on (1) <u>January 16, 2002</u> and (2) <u>January 16, 2002</u> of an invention known as <u>System and Method for a Guaranteed Delay Jitter Bound when Scheduling Bandwidth Grants for Voice Calls via a Cable Network</u> (Attorney Docket No. <u>1875.0690001</u>), which is disclosed and claimed in a patent application of the same title by the inventors <u>Ajay Chandra V. Gummalla</u> and (2) <u>Dolors Sala</u> (said application filed on <u>January 17, 2002</u> at the U.S. Patent and Trademark Office, having Application Number <u>10/046,725</u>).

The Assignee hereby appoint the U.S. attorneys associated with CUSTOMER NUMBER 28393 to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michaele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688, Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; Linda E. Alcorn, Esq., Reg. No. 39,588; Lawrence B. Bugaisky, Esq., Reg. No. 35,086; Donald J. Featherstone, Esq., Reg. No. 33,876; and Robert C. Millonig, Esq., Reg. No. 34,395. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A.

Direct phone calls to 202-371-2600.

FOR:	Broadcom Corporation
SIGNATURE:	- My Company
BY:	William _Ruehle
TITLE:	Vice President and Chief Financial Officer
	March 8 2000
DATE:	- Mary 10, 200



Certificate Under 37 C.F.R. § 3.73(b)

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Applicant/Patent Owner: <u>Guinnalia et al.</u>
Application No./Patent No.: 10/046,725 Filed/Issue Date: January 17, 2002
Entitled: System and Method for a Guaranteed Delay Jitter Bound when Scheduling Bandwidth Grants for Voice Calls via a Cable Network
Broadcom Corporation , a corporation (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1. [X] the assignee of the entire right, title, and interest, or
2. [] an assignee of an undivided part interest
in the patent application/patent identified above by virtue of either:
A. [X] An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. OR
B. [] A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:
1. From:To:
2. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
3. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
[] Additional documents in the chain of title are listed on a supplemental sheet.
[X] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.
Date: March 8, 2002
Name: William J. Ruehle Vice President and Chief Fig. 1. 1. 2. 2.
Vice President and Chief Financial Officer Title:
Signature:
P:\USERS\Tclark\mam\1875\069000\certif-ate SKGF Rev.6/13/01 mac

DO NOT FORWARD TO ASSIGNMENT BRANCH MOTIFOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: (1) <u>Ajay Chandra V. Gummalla</u> and (2) <u>Dolors Sala</u>, the undersigned inventors hereby sel and assign to <u>Broadcom Corporation</u> (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) for the United States of America (as defined in 35 U.S.C. § 100),

■ and throughout the world,

(a) in the invention(s) known as <u>System a</u>	and Method for a Gua	<u>rranteed Delay Jit</u>	ter Bound
when Scheduling Bandwidth Grants fo	or Voice Calls via a	Cable Network	for which
application(s) for patent in the United St	ates of America has (have) been execu	ited by the
undersigned on (1) an	d (2)	_ known as Uni	ted States
Application No. to be assigned, filed (he	erewith)), in any and	all applications t	hereon, in
any and all Letters Patent(s) therefor, ar	nd		

- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millonig, Esquire, Registration No. 34,395, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:	01/16/02	Signature of Inventor: _	G. V. Hay charden	(1)
			Ajay Chandra V. Gummalla	
Date:	01/16/02	Signature of Inventor: _	Dolors Sala	(2)